

Title (en)
VENTILATION VALVE

Title (de)
ENTLÜFTUNGSVENTIL

Title (fr)
VANNE DE VENTILATION

Publication
EP 3444507 A4 20191127 (EN)

Application
EP 16896147 A 20160504

Priority
• CN 201610200092 A 20160331
• CN 2016080990 W 20160504

Abstract (en)
[origin: EP3444507A1] A ventilation valve, comprising a cylindrical valve body (1), a gear box(2), a plurality of fan-shaped vanes(3) and a drive device(4), the gear box(2) being arranged in the center of the valve body(1), and a geared mechanism being provided inside the gear box(2). The drive device(4), by means of a geared drive mechanism, cause the vanes(3) to rotate in a same direction, each around its own central shaft; the vanes(3) are arranged within the valve body(1) in a uniform distribution; the geared mechanism comprises a first central gear(23) and a second central gear(24) fitted on a same supporting shaft(25); between the first central gear(23) and the second central gear(24) are provided a plurality of gears, one each of which is arranged at the end of one of said central shafts which extends to within the gear box(2), each of said gears engaging with both said first central gear(23) and said second central gear(24). Also arranged within the valve body(1) is one or a plurality of airflow meters(6), the distance between the central axis of each of said one or plurality of airflow meters(6) and the central axis of the valve body (1) is different. The present ventilation valve precisely controls airflow and is safe and reliable, while featuring improved geared mechanism security and reduced wear and tear, thus prolongs the service life of the ventilation valve.

IPC 8 full level
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CPC (source: CN EP KR US)
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Citation (search report)
• [Y] JP S55100938 U 19800714
• [A] CN 103758770 A 20140430 - HUNAN PROVINCIAL BLOWER CO LTD
• [A] WO 2008147023 A2 20081204 - SAMWON TECH CO LTD [KR], et al
• [Y] US 2006027672 A1 20060209 - GEORGE FRED [US]
• [A] US 2014067135 A1 20140306 - LEHNERT FRANK [CH], et al
• See references of WO 2017166369A1

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